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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
08/579,733 12/28/1995		HIROSHI NOBUTA	862.1351	4611		
5514	7590 08/04/2006		EXAMINER			
FITZPATRICK CELLA HARPER & SCINTO 30 ROCKEFELLER PLAZA			THOMPSON	THOMPSON, JAMES A		
NEW YORK, NY 10112			ART UNIT	PAPER NUMBER		
,			2625			
			DATE MAILED: 08/04/2006			

Please find below and/or attached an Office communication concerning this application or proceeding.

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,		Applicatio	pplication No. Applicant(s)				
		08/579,73	3	NOBUTA ET AL.			
On	ice Action Summary	Examiner		Art Unit			
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A SHORTEN WHICHEVEF - Extensions of ti after SIX (6) MC - If NO period for - Failure to reply Any reply receiv	IED STATUTORY PERIOD FOR RE R IS LONGER, FROM THE MAILING me may be available under the provisions of 37 CFI DNTHS from the mailing date of this communication reply is specified above, the maximum statutory pe within the set or extended period for reply will, by st yed by the Office later than three months after the merm adjustment. See 37 CFR 1.704(b).	G DATE OF TH R 1.136(a). In no ever i. riod will apply and will latute, cause the appli	IS COMMUNICATION nt, however, may a reply be time expire SIX (6) MONTHS from cation to become ABANDONEI	I. lely filed the mailing date of this of (35 U.S.C. § 133).			
Status							
2a)☐ This ad 3)☐ Since t	nsive to communication(s) filed on <u>1</u> ction is <b>FINAL</b> . 2b) 2ction is application is in condition for allowing the practice under the practice und	This action is no owance except t	on-final. for formal matters, pro		e merits is		
Disposition of C	Claims						
4a) Of 5) ☐ Claim(6) ☐ Claim(7) ☐ Claim(8) ☐ Claim(4)	ecification is objected to by the Exarewing(s) filed on is/are: a)	ejected.  nd/or election re  niner.  accepted or b)[	equirement.				
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Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 3	5 U.S.C. § 119						
12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☐ All b) ☐ Some * c) ☐ None of:  1. ☐ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.							
2) Notice of Draft 3) Information D	erences Cited (PTO-892) tsperson's Patent Drawing Review (PTO-948 isclosure Statement(s) (PTO-1449 or PTO/SI Mail Date		4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate	<sup>-</sup> O-152)		

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## DETAILED ACTION

#### Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 19 September 2005 has been entered.

## Response to Arguments

- 2. Applicant's arguments, see page 13, lines 7-12, filed 19 September 2005, with respect to the rejection under 35 USC \$112,  $1^{\rm st}$  paragraph have been fully considered and are persuasive. The rejection under 35 USC \$112,  $1^{\rm st}$  paragraph listed in items 3-4 of the previous office action, mailed 20 May 2005, has been withdrawn.
- 3. Applicant's arguments filed 19 September 2005 have been fully considered but they are not persuasive. Examiner has fully considered Applicant's discussion of the present amendments to the claims and the alleged differences between the present claims and the prior art of record. Applicant's arguments are based on the present amendments to the claims. Accordingly, new grounds of rejection are presented below.

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## Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 24, 27, 29, 59 and 63 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kita (US Patent 5,021,892) in view of Kawamata (US Patent 4,989,163) and Matsumoto (US Patent 5,684,607).

Regarding claim 24: Kita discloses an image processing device (figure 3(1) of Kita) comprising:

- a scanner (figure 3(60) of Kita) for reading an image of a document (column 5, lines 16-30 of Kita) and outputting an image signal (column 5, lines 31-47 of Kita).
- a control unit (figure 3(50,51,52,54,56,DB,AB,CB) of Kita main CPU) adapted for controlling said image processing device (column 4, lines 46-54 of Kita) and performing image processing on the image signal output from said scanner to provide a first processed image signal, the image processing being processing that is necessary for copying (column 5, lines 33-42 of Kita).
- a first bidirectional general-purpose interface (figure 3 (5) and column 6, lines 20-28 of Kita) adapted for transmitting, under control of said control unit, the image signal output by said scanner to an external computer (figure 3(8) and column 5, lines 65-67 of Kita), which performs image

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processing on the transmitted image signal to provide a second processed image signal (column 3, lines 46-48 of Kita), and for receiving the second processed image signal from the external computer (column 5, lines 65-68 of Kita - signal must be received from computer to be recorded by printer), the image processing performed by the external computer being processing that is necessary for copying (column 5, lines 65-68 of Kita - would be unable to print if processing necessary for copying was not performed).

- a second bidirectional general-purpose interface (figure 3(66) of Kita) adapted for outputting the first processed image signal (column 4, lines 3-17 of Kita) and the second processed image signal (column 5, lines 67-68 of Kita) to a printer (as can clearly be seen in figure 3 of Kita, element 66 is the interface leading to the printer).
- said image processing device has a plurality of modes including a read mode (column 6, line 68 to column 7, line 4 of Kita), a print mode (column 7, lines 5-7 of Kita), a first copying mode (column 6, lines 50-55 of Kita), and a second copying mode (column 6, lines 56-67 of Kita).
- in the read mode for performing read operations in response to a read designation by the user (column 10, line 66 to column 11, line 5 of Kita), the image signal from said scanner is transmitted to the external computer via said first bidirectional general-purpose interface (column 6, line 68 to column 7, line 5 of Kita).
- in the print mode for performing print operation in response to a print designation by a user (column 11, lines 20-22 and lines 36-40 of Kita), the image signal from the external computer is transmitted to the printer via said

first bidirectional general-purpose interface and said second bidirectional general-purpose interface (column 11, lines 36-40 of Kita).

- in the first copying mode for performing first copying operation based on the second processed image signal in response to a copying designation by the user (column 6, lines 50-55 of Kita and column 19, lines 63-67 of Kita), the image signal from said scanner is transmitted to the external computer where the image signal is processed into the second processed image signal via said control unit and said first bidirectional general-purpose interface (column 19, line 68 to column 20, line 11 of Kita), and thereafter the second processed image signal is transmitted to the printer via said first bidirectional general-purpose interface, said control unit, and said second bidirectional general-purpose interface (column 20, lines 12-22 of Kita).
- in the second copying mode for performing second copying operation based on the first processed image signal (column 6, lines 56-67 of Kita), the image signal from said scanner is transmitted to said control unit where the image signal is processed into the first processed image signal (column 6, lines 58-61 of Kita) and the first processed image signal is transmitted to the printer via said second bidirectional general-purpose interface (figure 3 and column 6, lines 56-67 of Kita).

Kita does not disclose expressly that said first and second bidirectional general-purpose interfaces are of the same standard; and that said first copying mode is completed without requiring any additional designation by the user other than the copying designation.

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Kawamata discloses a print system wherein all of the interfaces are standardized (column 1, line 67 to column 2, line 4 of Kawamata).

Kita and Kawamata are combinable because they are from the same field of endeavor, namely digital image data printing and reproduction systems. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to have modified Kita wherein the first and second bidirectional general-purpose interfaces are of the same standard, according to the teachings of Kawamata. The suggestion for doing so would have been that the overall processing speed would increase using standard interfaces since each device would operate at the fastest speed available and the input and output would be better synchronized. Therefore, it would have been obvious to combine Kawamata with Kita.

Kita in view of Kawamata does not disclose expressly that said first copying mode is completed without requiring any additional designation by the user other than the copying designation.

Matsumoto discloses printing, scanning, and other forms of image processing using a single command and without requiring any additional designation by the user other than the particular image processing designation (figure 3 and column 3, lines 49-59 of Matsumoto).

Kita in view of Kawamata is combinable with Matsumoto because they are from the same field of endeavor, namely the scanning, control and processing of digital image data in a digital image data processing, transmitting and copying environment. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to require only

a single command to perform an image processing operation, as taught by Matsumoto, wherein said image processing operation is specifically the first copying operation taught by Kita. The motivation for doing so would have been to simplify the overall image data processing. Therefore, it would have been obvious to combine Matsumoto with Kita in view of Kawamata to obtain the invention as specified in claim 24.

Regarding claim 27: Kita discloses a method comprising the steps of:

- in the read mode for performing read operations (column 6, line 68 to column 7, line 4 of Kita) in response to a read designation by a user (column 10, line 66 to column 11, line 5 of Kita), reading an image of a document (column 5, lines 16-30 of Kita) and outputting an image signal by means of a scanner (figure 3(60) and column 5, lines 31-47 of Kita), and transmitting the image signal output by the scanner to an external computer (figure 3(8) and column 5, lines 65-67 of Kita) via a first bidirectional general-purpose interface (figure 3(5) and column 6, lines 20-28 of Kita).
- in the print mode for performing print operation (column 7, lines 5-7 of Kita) in response to a print designation by the user (column 11, lines 20-22 and lines 36-40 of Kita), receiving an image signal from the external computer via the first bidirectional general-purpose interface (column 11, lines 36-40 of Kita) and outputting the image signal to a printer (column 5, lines 67-68 of Kita) via a second bidirectional general-purpose interface (figure 3(66) of Kita) (as can clearly be seen in figure 3 of Kita, element 66 is the interface leading to the printer).

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• in the first copying mode for performing first copying operation based on a second processed image signal in response to a copying designation by the user (column 6, lines 50-55 of Kita and column 19, lines 63-67 of Kita):

o reading an image of a document (column 5, lines 16-30 of Kita) and outputting an image signal by means of the scanner (column 5, lines 31-47 of Kita).

- o transmitting the image signal output by the scanner to the external computer via the first bidirectional general-purpose interface (column 5, lines 65-67 of Kita), wherein the external computer performs image processing on the transmitted image signal to provide the second processed image signal (column 3, lines 46-48 of Kita), the image processing being processing that is necessary for copying (column 5, lines 65-68 of Kita would be unable to print if processing necessary for copying was not performed).
- o receiving the second processed image signal from the external computer (column 5, lines 65-68 of Kita signal must be received from computer to be recorded by printer) via the first bidirectional general-purpose interface (figure 3(5) of Kita as can clearly be seen in figure 3 of Kita, element 5 is the interface for receiving data from the external computer).
- o outputting the second processed image signal to the printer (column 5, lines 67-68 of Kita) via the second bidirectional general-purpose interface (as can clearly be seen in figure 3 of Kita, element 66 is the interface leading to the printer).

• in the second copying mode for performing second copy operation based on a first processed image data (column 6, lines 56-67 of Kita):

- o reading an image of a document (column 5, lines 16-30 of Kita) and outputting an image signal by the scanner (column 5, lines 31-47 of Kita).
- o performing image processing on the image signal output by the scanner to provide a first processed image signal (column 6, lines 58-61 of Kita), the image processing being processing that is necessary for copying (column 6, lines 62-65 of Kita).
- o outputting the first processed image signal to the printer via said second bidirectional general-purpose interface (figure 3 and column 6, lines 56-67 of Kita).

Kita does not disclose expressly that said first and second bidirectional general-purpose interfaces are of the same standard; and that said first copying mode is completed without requiring any additional designation by the user other than the copying designation.

Kawamata discloses a print system wherein all of the interfaces are standardized (column 1, line 67 to column 2, line 4 of Kawamata).

Kita and Kawamata are combinable because they are from the same field of endeavor, namely digital image data printing and reproduction systems. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to have modified Kita wherein the first and second bidirectional general-purpose interfaces are of the same standard, according to the teachings of Kawamata. The suggestion for doing so would

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have been that the overall processing speed would increase using standard interfaces since each device would operate at the fastest speed available and the input and output would be better synchronized. Therefore, it would have been obvious to combine Kawamata with Kita.

Kita in view of Kawamata does not disclose expressly that said first copying mode is completed without requiring any additional designation by the user other than the copying designation.

Matsumoto discloses printing, scanning, and other forms of image processing using a single command and without requiring any additional designation by the user other than the particular image processing designation (figure 3 and column 3, lines 49-59 of Matsumoto).

Kita in view of Kawamata is combinable with Matsumoto because they are from the same field of endeavor, namely the scanning, control and processing of digital image data in a digital image data processing, transmitting and copying environment. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to require only a single command to perform an image processing operation, as taught by Matsumoto, wherein said image processing operation is specifically the first copying operation taught by Kita. The motivation for doing so would have been to simplify the overall image data processing. Therefore, it would have been obvious to combine Matsumoto with Kita in view of Kawamata to obtain the invention as specified in claim 27.

Regarding claim 29: Kita discloses that the transmitted image signal is processed by the external computer (column 6,

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lines 39-43 of Kita) and transmitted to a public telephone line (facsimile) (column 6, lines 13-19 of Kita).

Regarding claim 59: Kita discloses that said control unit has a density adjusting function (column 4, lines 8-12 of Kita).

Regarding claim 63: Kita discloses an information processing apparatus (figure 3(8) of Kita) comprising:

- a read designation unit (column 3, lines 48-53 of Kita) adapted to designate a start for reading of a document (column 6, line 65 to column 7, line 4 of Kita).
- a print designation unit (column 3, lines 48-53 of Kita) adapted to designate a start for printing data that said information processing apparatus transmits (column 7, lines 5-7 of Kita).
- a copying designation unit (column 3, lines 48-53 of Kita) adapted to designate a start for copying (column 6, lines 50-55 and column 7, lines 21-26 of Kita).
- a processing unit (figure 3(8(CPU)) of Kita) adapted to process an image signal to provide a second processed image signal (column 3, lines 46-48 of Kita).
- → The keyboard (figure 3(KYBD) of Kita) of the information processing apparatus is used to enter present control commands (column 3, lines 48-53 of Kita). Thus, the read designation unit, print designation unit, and copying designation unit are simply the present control commands entered on the keyboard and interpreted by the CPU executing particular software routines which correspondingly designate the start of reading, printing or copying. Kita further discloses an image processing device (figure 3

(1) of Kita) comprising:

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• a scanner (figure 3(60) of Kita) for reading an image of a document (column 5, lines 16-30 of Kita) and outputting an image signal (column 5, lines 31-47 of Kita).

- a control unit (figure 3(50,51,52,54,56,DB,AB,CB) of Kita main CPU) adapted for controlling said image processing apparatus (column 4, lines 46-54 of Kita) and performing image processing on the image signal output from said scanner to provide a first processed image signal, the image processing being processing that is necessary for copying (column 5, lines 33-42 of Kita).
- a first bidirectional general-purpose interface (figure 3 (5) and column 6, lines 20-28 of Kita) for transmitting, under control of said control unit, the image signal output by said scanner to said information processing apparatus (column 5, lines 65-67 of Kita), which performs image processing on the transmitted image signal to provide the second processed image signal (column 3, lines 46-48 of Kita), and for receiving the second processed image signal from the information processing apparatus (column 5, lines 65-68 of Kita signal must be received from computer to be recorded by printer), performed by said image processing apparatus, the image processing being processing that is necessary for copying (column 5, lines 65-68 of Kita would be unable to print if processing necessary for copying was not performed).
- a second bidirectional general-purpose interface (figure 3 (66) of Kita) adapted for outputting the first processed image signal (column 4, lines 3-17 of Kita) and the second processed image signal (column 5, lines 67-68 of Kita) to a

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printer (as can clearly be seen in figure 3 of Kita, element 66 is the interface leading to the printer).

• a copy key (figure 2(31) of Kita) for designating the start of copying (column 6, lines 56-65 of Kita). The second copying mode is a copy generated by receiving/transmitting the image data by facsimile and copying the document on the image printer (column 6, lines 56-65 of Kita).

- said image processing apparatus has a plurality of modes including a read mode (column 6, line 68 to column 7, line 4 of Kita) in response to a read designation by said information processing apparatus (column 10, line 66 to column 11, line 5 of Kita), a print mode (column 7, lines 5-7 of Kita) performed in response to a print designation by said information processing apparatus (column 11, lines 20-22 and lines 36-40 of Kita), a first copying mode (column 6, lines 50-55 of Kita) performed in response to a copying designation by said information processing apparatus (column 6, lines 50-55 of Kita and column 19, lines 63-67 of Kita), and a second copying mode (column 6, lines 56-67 of Kita) performed in response to a copying designation by said copy key (column 6, lines 56-65 of Kita).
- in the first copying mode for performing first copying operation based on the second processed image signal in response to a copying designation by the user (column 6, lines 50-55 of Kita and column 19, lines 63-67 of Kita), the image signal from said scanner is transmitted to said information processing apparatus where the image signal is processed into the second processed image signal via said control unit and said first bidirectional general-purpose interface (column 19, line 68 to column 20, line 11 of

Kita), and thereafter the second processed image signal is transmitted to the printer via said first bidirectional general-purpose interface, said control unit, and said second bidirectional general-purpose interface (column 20, lines 12-22 of Kita).

• in the second copying mode for performing second copying operation based on the first processed image signal (column 6, lines 56-67 of Kita), the image signal from said scanner is transmitted to said control unit where the image signal is processed into the first processed image signal (column 6, lines 58-61 of Kita) and the first processed image signal is transmitted to the printer via said second bidirectional general-purpose interface (figure 3 and column 6, lines 56-67 of Kita).

Kita does not disclose expressly that said first and second bidirectional general-purpose interfaces are of the same standard; and that said first copying mode is completed without requiring any additional designation by the user other than the copying designation.

Kawamata discloses a print system wherein all of the interfaces are standardized (column 1, line 67 to column 2, line 4 of Kawamata).

Kita and Kawamata are combinable because they are from the same field of endeavor, namely digital image data printing and reproduction systems. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to have modified Kita wherein the first and second bidirectional general-purpose interfaces are of the same standard, according to the teachings of Kawamata. The suggestion for doing so would have been that the overall processing speed would increase using

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standard interfaces since each device would operate at the fastest speed available and the input and output would be better synchronized. Therefore, it would have been obvious to combine Kawamata with Kita.

Kita in view of Kawamata does not disclose expressly that said first copying mode is completed without requiring any additional designation by the user other than the copying designation.

Matsumoto discloses printing, scanning, and other forms of image processing using a single command and without requiring any additional designation by the user other than the particular image processing designation (figure 3 and column 3, lines 49-59 of Matsumoto).

Kita in view of Kawamata is combinable with Matsumoto because they are from the same field of endeavor, namely the scanning, control and processing of digital image data in a digital image data processing, transmitting and copying environment. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to require only a single command to perform an image processing operation, as taught by Matsumoto, wherein said image processing operation is specifically the first copying operation taught by Kita. The motivation for doing so would have been to simplify the overall image data processing. Therefore, it would have been obvious to combine Matsumoto with Kita in view of Kawamata to obtain the invention as specified in claim 63.

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6. Claim 58 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kita (US Patent 5,021,892) in view of Kawamata (US Patent 4,989,163), Matsumoto (US Patent 5,684,607), and Kenmochi (US Patent 5,900,947).

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Regarding claim 58: Kita in view of Kawamata and Matsumoto does not disclose expressly that said scanner generates a color image signal.

Kenmochi discloses a scanner that generates a color image signal (column 11, lines 63-67 of Kenmochi).

Kita in view of Kawamata and Matsumoto are combinable with Kenmochi because they are from the same field of endeavor, namely the control and operation of digital image data reproduction devices and the processing of the digital image signal obtained thereon. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to use a scanner that generates color image signals, as taught by Kenmochi. The motivation for doing so would have been to be able to obtain full color image data from a scanned document, which is readily recognized by those of ordinary skill in the art to be a desirable capability. Therefore, it would have been obvious to combine Kenmochi with Kita in view of Kawamata and Matsumoto to obtain the invention as specified in claim 58.

7. Claims 64-67 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kita (US Patent 5,021,892) in view of Matsumoto (US Patent 5,684,607).

Regarding claim 64: Kita discloses an image processing device (figure 3(1) of Kita) comprising:

- a scanner (figure 3(60) of Kita) for reading an image of a document (column 5, lines 16-30 of Kita) and outputting an image signal (column 5, lines 31-47 of Kita).
- a control unit (figure 3(50,51,52,54,56,DB,AB,CB) of Kita main CPU) adapted for controlling said image processing device (column 4, lines 46-54 of Kita) and performing image processing on the image signal output from said scanner to provide a first processed image signal, the image processing being processing that is necessary for copying (column 5, lines 33-42 of Kita).
- a first interface (figure 3(5) and column 6, lines 20-28 of Kita) adapted for transmitting the image signal output by said scanner to an external computer (figure 3(8) and column 5, lines 65-67 of Kita), which performs image processing on the transmitted image signal to provide a second processed image signal (column 3, lines 46-48 of Kita), and for receiving the second processed image signal from the external computer (column 5, lines 65-68 of Kita signal must be received from computer to be recorded by printer), the image processing performed by the external computer being processing that is necessary for copying (column 5, lines 65-68 of Kita would be unable to print if processing necessary for copying was not performed).
- a second interface (figure 3(66) of Kita) adapted for outputting the first processed image signal (column 4, lines 3-17 of Kita) and the second processed image signal (column 5, lines 67-68 of Kita) to a printer (as can clearly be seen in figure 3 of Kita, element 66 is the interface leading to the printer).

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• said image processing device has a first copying mode (column 6, lines 50-55 of Kita), and a second copying mode (column 6, lines 56-67 of Kita).

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- in the first copying mode for performing first copying operation based on the second processed image signal in response to a copying designation by the user (column 6, lines 50-55 of Kita and column 19, lines 63-67 of Kita), the image signal is transmitted to the external computer where the image signal is processed into the second processed image signal via said control unit and said first interface (column 19, line 68 to column 20, line 11 of Kita), then the second processed image signal is transmitted to the printer via said first interface, said control unit, and said second interface (column 20, lines 12-22 of Kita).
- in the second copying mode for performing second copying operation based on the first processed image signal (column 6, lines 56-67 of Kita), the image signal is transmitted to said control unit where the image signal is processed into the first processed image signal (column 6, lines 58-61 of Kita) and the first processed image signal is transmitted to the printer via said second interface (figure 3 and column 6, lines 56-67 of Kita).

Kita does not disclose expressly that said first copying mode is completed without requiring any additional designation by the user other than the copying designation.

Matsumoto discloses printing, scanning, and other forms of image processing using a single command and without requiring any additional designation by the user other than the particular

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image processing designation (figure 3 and column 3, lines 49-59 of Matsumoto).

Kita is combinable with Matsumoto because they are from the same field of endeavor, namely the scanning, control and processing of digital image data in a digital image data processing, transmitting and copying environment. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to require only a single command to perform an image processing operation, as taught by Matsumoto, wherein said image processing operation is specifically the first copying operation taught by Kita. The motivation for doing so would have been to simplify the overall image data processing. Therefore, it would have been obvious to combine Matsumoto with Kita to obtain the invention as specified in claim 64.

Regarding claim 65: Kita discloses that, in the first copying mode (column 6, lines 50-55 of Kita), said control unit receives command information for designating the start of the scanner to read the image (column 6, lines 52-53 of Kita) from the external computer (column 7, lines 23-26 of Kita) via said first interface (figure 3(5) of Kita - as can clearly be seen in figure 3 of Kita), controls the scanner to start a read operation in accordance with the command information (column 6, lines 52-53 of Kita), transmits the image signal to the external computer via said first interface (column 19, line 68 to column 20, line 11 of Kita), receives print data as the second processed image signal from the external computer via said first interface and transmits the print data as the second processed image signal to the printer via said second interface (column 20, lines 12-22 of Kita).

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Regarding claim 66: Kita discloses that said image processing device has a print mode (column 7, lines 5-7 of Kita), in which print data is transmitted from the external computer to said control unit via said first interface (column 11, lines 36-40 of Kita) and the printer prints the print data (column 11, lines 39-40 of Kita), and an image reading mode (column 6, line 68 to column 7, line 4 of Kita) in which an image signal from the scanner is transmitted from said control unit to the external computer via said first interface (column 6, line 68 to column 7, line 5 of Kita).

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Regarding claim 67: Kita discloses a method comprising the steps of:

- in a first copying mode (column 6, lines 50-55 of Kita) for performing first copying operation based on a second processed image signal in response to a copying designation by a user (column 6, lines 50-55 of Kita and column 19, lines 63-67 of Kita):
  - o reading an image of a document (column 5, lines 16-30 of Kita) and outputting an image signal by a scanner (figure 3(60) and column 5, lines 31-47 of Kita).
  - o transmitting the image signal output by the scanner to an external computer (figure 3(8) and column 5, lines 65-67 of Kita) via a first interface (figure 3(5) of Kita as can clearly be seen in figure 3 of Kita, element 5 is the interface for receiving data from the external computer), wherein the external computer performs image processing on the transmitted image signal to provide a second processed image signal (column 3, lines 46-48 of Kita), the image processing being processing that is necessary for copying (column

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5, lines 65-68 of Kita - would be unable to print if processing necessary for copying was not performed).

- o receiving the second processed image signal from the external computer (column 5, lines 65-68 of Kita signal must be received from computer to be recorded by printer) via the first interface (figure 3(5) of Kita as can clearly be seen in figure 3 of Kita, element 5 is the interface for receiving data from the external computer).
- o outputting the second processed image signal to a printer (figure 3(3) and column 5, lines 67-68 of Kita) via a second interface (figure 3(66) of Kita as can clearly be seen in figure 3 of Kita, element 66 is the interface leading to the printer).
- in a second copying mode for performing second copying operation based on a first processed image data (column 6, lines 56-67 of Kita):
  - o reading an image of a document (column 5, lines 16-30 of Kita) and outputting an image signal by the scanner (column 5, lines 31-47 of Kita).
  - o performing image processing on the image signal output by the scanner to provide a first processed image signal (column 6, lines 58-61 of Kita), the image processing being processing that is necessary for copying (column 6, lines 62-65 of Kita).
  - o outputting the first processed image signal to the printer via the second interface (figure 3 and column 6, lines 56-67 of Kita).

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Kita does not disclose expressly that the copying operation is completed without requiring any additional designation by the user other than the copying designation.

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Matsumoto discloses printing, scanning, and other forms of image processing using a single command and without requiring any additional designation by the user other than the particular image processing designation (figure 3 and column 3, lines 49-59 of Matsumoto).

Kita is combinable with Matsumoto because they are from the same field of endeavor, namely the scanning, control and processing of digital image data in a digital image data processing, transmitting and copying environment. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to require only a single command to perform an image processing operation, as taught by Matsumoto, wherein said image processing operation is specifically the copying operation taught by Kita. The motivation for doing so would have been to simplify the overall image data processing. Therefore, it would have been obvious to combine Matsumoto with Kita to obtain the invention as specified in claim 67.

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James A. Thompson whose telephone number is 571-272-7441. The examiner can normally be reached on 8:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David K. Moore can be reached on 571-272-7437. The fax phone number for the

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organization where this application or proceeding is assigned is 571-273-8300.

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James A. Thompson

Examiner

Technology Division 2625

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24 July 2006

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